

UCT-0019
(00-33)

BEST AVAILABLE COPY

IN THE CLAIMS

Claims 1-7 (Canceled)

8. (Previously presented) A method for the manufacture of a conductive polymer composite, comprising

impregnating a polymer with a vaporous halogen in the absence of a volatile organic compound; and

exposing the impregnated polymer to a pyrrole-containing monomer vapor to form a conductive polymer composite.

9. (Previously presented) The method of claim 8, wherein the pyrrole-containing monomer vapor comprises pyrrole or pyrrole and N-methyl pyrrole.

10. (Previously presented) The method of claim 8, wherein the composite has a conductivity of about 10^{-7} to about 10^{-1} S/cm, inclusive.

11. (Previously presented) The method of claim 8, wherein the halogen is iodine.

12. (Previously presented) The method of claim 8, wherein the polymer is a foam.

13. (Previously presented) The method of claim 8, wherein the polymer is a polyurethane, a polybutadiene, or a styrene-butadiene copolymer.

Claims 14- 22 (Canceled)